

### **ABSTRACT**

In a distributed control system in which a plurality of nodes are connected to a transmission line, each node controlling components connected to this node and transmitting a message to other nodes, a message sent by each node includes at least two message-sending condition-identifying portions, one of the condition-identifying portions including data indicating a message-receiving node or non-designation of a message-receiving node; and a comparison-selection circuit provided in each node includes registration parts for registering data of message-receiving conditions, at least two registration parts for comparing contents of the condition-identifying portion in the taken-in message with the data of message-receiving conditions registered in the registration parts, a received-message storing part for storing a message to be received in this node, a control part for determining whether or not the taken-in message is to be received in this node based on a result of comparison-processing performed in the comparison and selection means and for transferring the taken-in message to the received-message storing part if it is determined that the taken-in message is received in this node, otherwise, abandoning the taken-in message.

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